

# Practice Question Setting up jenkins pipeline to deploy docker swarm

## 1.Setup Docker Swarm

```
docker swarm init --advertise-addr MANAGER_IP
```

## 2.Verify Swarm Status

```
docker node ls
```


## 3.Deploy or create a service


```
docker service create --replicas 3 --name my-web-app -p 80:80 nginx
```


Enter an item name


DockerPipeline


» Required field


**Freestyle project**  
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.


**Maven project**  
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.

**Pipeline**  
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

**Multi-configuration project**  
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

**Folder**  
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.

**Multibranch Pipeline**  
Creates a set of Pipeline projects according to detected branches in one SCM repository.

**Organization Folder**  
Creates a set of multibranch project subfolders by scanning for repositories.

OK

If you create a new item from other existing, you can use this option:

## Configure

- General
- Source Code Management
- Build Triggers**
- Build Environment
- Build Steps
- Post-build Actions

### Build Triggers

- ☐ Trigger builds remotely (e.g., from scripts) ?
- ☐ Build after other projects are built ?
- ☐ Build periodically ?
- ☐ GitHub hook trigger for GITScm polling ?

☒ Poll SCM ?

Schedule ?

H/2 \* \* \* \*

Would last have run at Thursday, July 27, 2023 at 4:03:17 PM India Standard Time; would next run at Thursday, July 27, 2023 at 4:03:17 PM

☐ Ignore post-commit hooks ?

### Build Environment

- ☐ Delete workspace before build starts
- ☐ Use secret text(s) or file(s) ?
- ☐ Add timestamps to the Console Output
- ☐ Inspect build log for published build scans
- ☐ Terminate a build if it's stuck
- ☐ With Ant ?

### Build Steps

#### Build / Publish Docker Image ?

Directory for Dockerfile

Location to look for the Dockerfile in, which is used to build the image.

C:\Users\Swaroop\Desktop\EclipseWorkspace\Docker-master\Jenkinsfile

Advanced ^ Edited

Credentials to pull image from upstream registry

Registry Credentials

Docker registry URL ?

https://index.docker.io/v1/

Registry credentials

- none -

Add +

Cloud ?

Cloud to use to build image

Cloud this build is running on

Channel stopped

Finished: SUCCESS